

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract ID Code Firm-Fixed-Price		Page 1 Of 5	
2. Amendment/Modification No.  P00001		3. Effective Date  2007JUL03		4. Requisition/Purchase Req No.  SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By U.S. ARMY TACOM LCMC SFAE-GCS-W-BCTP MEGHAN J CUSTER (586)753-2130 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL WEAPON SYSTEM: WPN SYS: KM EMAIL: MEGHAN.J.CUSTER@US.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6) DCMA SANTA ANA 34 CIVIC CENTER PLAZA ROOM 5001 SANTA ANA CA 92701-4056  SCD C PAS NONE ADP PT HQ0339		Code S0513A	
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)  VENTARI CORPORATION 31642 SOUTH COAST HWY SUITE 202 LAGUNA BEACH, CA 92651-6927  TYPE BUSINESS: Small Disadvantaged Business Performing in U.S.				<input type="checkbox"/>		9A. Amendment Of Solicitation No.	
				<input type="checkbox"/>		9B. Dated (See Item 11)	
				<input checked="" type="checkbox"/>		10A. Modification Of Contract/Order No. W56HZV-07-C-B018	
				<input type="checkbox"/>		10B. Dated (See Item 13) 2007JUN08	
Code 45N01		Facility Code					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required) NO CHANGE TO OBLIGATION DATA							
13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS It Modifies The Contract/Order No. As Described In Item 14.							
KIND MOD CODE: G							
<input type="checkbox"/> A. This Change Order is Issued Pursuant To: The Changes Set Forth In Item 14 Are Made In The Contract/Order No. In Item 10A.							
<input type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).							
<input checked="" type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: MUTUAL AGREEMENT OF BOTH PARTIES							
<input type="checkbox"/> D. Other (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  SEE SECOND PAGE FOR DESCRIPTION							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print) EDWARD OTTMAN ED.OTTMAN@US.ARMY.MIL (586)574-2147			
15B. Contractor/Offeror  (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America  By _____ /SIGNED/ (Signature of Contracting Officer)		16C. Date Signed  2007JUL03	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-C-B018 <b>MOD/AMD</b> P00001	<b>Page</b> 2 <b>of</b> 5
<b>Name of Offeror or Contractor:</b> VENTARI CORPORATION		

SECTION A - SUPPLEMENTAL INFORMATION

1. Modification P00001 to Contract W56HZV-07-C-B018 is a supplemental agreement.
2. The purpose of this modification is to add the following clauses:

a. Clause 52.211-4016 CARC PAINT-PRETREATMENT REQUIREMENTS FOR FERROUS AND GALVANIZED SURFACES is hereby added to Section E.

The following language is added to this clause:

(f) For this effort the following alternate process for the pre-treatment and painting may be used.

Surface pre-treatment: All surfaces shall be cleaned and pre-treated per Method 1 of TT-C-490.

Zinc Primer: A zinc rich primer (85% zinc or higher) per paint supplier recommendations, and procedures.

b. Clause 52.211-4030 BASIC APPLICATION AND TESTING REQUIREMENTS FOR CHEMICAL AGENT RESISTANT COATINGS (CARC) ON METALLIC SURFACES is hereby added to Section E.
3. The purpose of this modification is to update the finishing requirements on the P/N Drawings stated below (All Drawings are part of Attachment 0001):

<u>P/N - DRAWING</u>	<u>NOUN</u>	<u>CHANGE</u>
8668952	CLEVIS PIN	FINISH NOTE 3-Hereby updated to "Finish Same as P/N 12475745"
11660634	CLEVIS	FINISH NOTE 2-Hereby updated to "Finish Same as P/N 12475739"
5213744	QUICK PIN	FINISH NOTE-Hereby updated to "Finish Same as P/N 12475739"
12475739	TOWBAR WELDMENT	FINISH NOTE 3-Hereby updated to "Finish Per Contract Clauses 52.211-4016 (E-1) & 52.211-4030 (E-2)"
4. There is no change to the obligated amount of Contract W56HZV-07-C-B018 as a result of this contract.
5. Except as specifically stated within, all other contract terms and conditions remain unchanged and in full force and effect.

\*\*\* END OF NARRATIVE A0002 \*\*\*

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 3 of 5
	PIIN/SIIN W56HZV-07-C-B018MOD/AMD P00001	
Name of Offeror or Contractor: VENTARI CORPORATION		

SECTION E - INSPECTION AND ACCEPTANCE

Status	Regulatory Cite	Title	Date
E-1 CHANGED	52.211-4016 (TACOM)	CARC PAINT-PRETREATMENT REQUIREMENTS FOR FERROUS, GALVANIZED AND ALUMINUM SURFACES	DEC/2005

(a) Ferrous and galvanized surfaces shall be cleaned and pretreated with a Type 1, zinc phosphate system per TT-C-490. Alternate pretreatment systems for ferrous substances must meet the performance tests specified in paragraphs 3.5.7, 3.5.8, 4.2.7, and 4.2.8 of TT-C-490.

Corrosion resistance tests on steel substrates will be conducted on a monthly basis using two test coupons. This test frequency shall begin once the process has been found to be in statistical control.

Unless otherwise specified, MIL-P-53022 and -53030 primers on steel substrates shall be salt spray tested for 336 hours (ASTM B117). All electrocoat primers on steel substrates shall be tested for 1000 hours. Test coupons shall be scraped at a 30 degree contact angle (approximate), with a one inch (approximate) metal blade such as a putty knife, between 24 and 168 hours after removal from the neutral salt spray cabinet for coupon evaluation. All TT-C-490E (Type I) zinc phosphate pretreatment systems must be documented and approved by the procuring activity prior to use. The procedure containing all the elements specified in paragraph 3.2 of TT-C-490 shall be available for review at the applicator's facility.

The prime contractor shall notify the procuring activity no less than 45 days prior to start of pretreatment and painting that the procedure is available for review and approval. Qualification will consist of verification that the process with its controls can meet the performance requirements in the specification.

Re-qualification of the process shall be required if the process is changed outside the limits defined in the TACOM letter of system approval provided to the application facility.

Note: Zinc phosphate systems for galvanized surfaces require different controls than those for steel. Hot dipped galvanized surfaces are highly prone to chloride contamination from the galvanizing flux process. This contaminant must be removed prior to pretreatment for the coating system to pass these performance tests. The test coupons must duplicate the production painting process as closely as possible. If production is force cured, test coupons shall be cured in an identical manner.

(b) Qualification and control of pretreatment systems for galvanized substrates shall be performed using Accelerated Corrosion Test protocol contained in GM 9540P rather than salt spray. Test coupons with pretreatment and primer only shall be cured for seven days, and then scribed through the primer to the substrate. After 40 cycles of test exposure, the test coupons shall be scraped at a 30 degree contact angle (approximate), with a one inch (approximate) metal blade such as a putty knife, both parallel and perpendicular to the scribe after removal from the test chamber for coupon evaluation. There shall be no more than 3 mm of corrosion, blistering, or loss of paint adhesion from the scribe line and no more than 5 blisters in the field with none greater than 1 mm diameter. This test shall be performed at three month intervals (two test coupons) to ensure that the process remains in control.

(c) Aluminum substrates require a chromate conversion coating per MIL-C-5541E (or alternate, see note below). If any other alternate pretreatment is considered, it must pass 120 cycles of GM9540P with a design of experiments test matrix approved by the procuring activity. After completion of the cyclic salt environment exposure, the panels shall be scraped as described above, and shall have no more than 0.5 mm paint loss (creep-back) from the scribe. In addition, there shall be no more than 5 blisters in the field with none larger than 1mm diameter. After completion of the 120 cycle corrosion resistance test evaluation, each test panel will be subjected to cross hatch tape test (ASTM D3359, method b 6 cut pattern. minimum tape adhesion rating of 45 oz. per inch of width) and shall be done no closer than 12 mm from any panel edge or the scribe. The removal of two or more complete squares of primer shall constitute failure. Any alternate system must demonstrate its ability to pass both corrosion and adhesion tests on 5 consecutive days of production to be considered acceptable.

For information purposes:

Note: The only alternative products which have demonstrated their ability to meet these requirements for 5000 and 6000 series aluminum alloys are Alodine 5200 and Alodine 5700. Documented process controls shall be established which comply with the manufacturer's technical bulletin. Spray-to-waste systems will require fewer process controls than an immersion process.

(d) The use of TT-C-490E Type III: Vinyl Wash Primer (DOD-P-15328) has hexavalent chromium content and high VOC level. Bonderite 7400 is an approved, environmentally friendly alternative for wash primer. The application and control process shall be documented. This product is subject to the same salt spray requirements as a zinc phosphated product. The number of process controls for this product is dependent upon its method of application. The specific controls shall be in agreement with the product manufacturer's technical bulletin to provide the level of performance required for zinc phosphated substrates. Spray-to-waste applications will require fewer process controls than an immersion process.

(e) Acceptance of production painted parts is contingent upon the painted surface meeting the dry film thickness and cross hatch

CONTINUATION SHEET	Reference No. of Document Being Continued  PIIN/SIIN W56HZV-07-C-B018MOD/AMD P00001	Page 4 of 5
Name of Offeror or Contractor: VENTARI CORPORATION		

adhesion requirements. The CARC painted surface shall be free of any blisters, pores or coverage voids.

- (f) For this effort the following alternate process for the pre-treatment and painting may be used.
  - Surface pre-treatment: All surfaces shall be cleaned and pre-treated per Method 1 of TT-C-490.
  - Zinc Primer: A zinc rich primer (85% zinc or higher) per paint supplier recommendations, and procedures.

E-2 ADDED	52.211-4030	BASIC APPLICATION AND TESTING REQUIREMENTS FOR CHEMICAL AGENT	DEC/2005
	(TACOM)	RESISTANT COATINGS (CARC) ON METALLIC SURFACES	

- (a) Scope: The requirements contained herein apply whenever any CARC topcoats and primers as specified in MIL-DTL-53072 are cited in the contract.
- (b) CARC Primers: Select Army Research Laboratories (ARL) approved powder coat primers can also be used as a replacement for liquid primers such as MIL-P-53022 and MIL-P-53030 primers. Any part that has rust, mill scale, or any other surface contamination must be cleaned prior to the application of any coating IAW TT-C-490.

(c) End-Item Inspection. After the complete paint finish has been applied and cured\* (see note below), the Contractor shall test and inspect two units per lot for (i) workmanship, (ii) total paint film thickness, and (iii) paint adhesion. Unless otherwise agreed to between the Contractor and the Government quality assurance representative, a lot shall be defined as all units submitted for final Government acceptance at one time. The use of test panels in lieu of actual production units is prohibited.

At final inspection, the cumulative total paint film thickness of pretreatment, primer, and topcoat shall be the sum of the minimum and maximum thicknesses for individual elements of the paint finish as specified in MIL-DTL-53072. The specific number of test locations shall be agreed to by the Government quality assurance representative in advance. In addition, two locations on each sample unit shall be selected to conduct the scribe tape test. The test locations shall be routinely varied among the following:

- (1) Directly adjacent to a weld.
- (2) On or directly adjacent to a machine cut or sheared edge.
- (3) On any mechanically formed surface when lubricants/drawing compounds were used.
- (4) On paint touch-up areas.

The precise location for each scribe tape shall be in an inconspicuous location that has been accepted by the Government quality assurance representative before the test is conducted.

Upon completion of the scribe tape test, the scribe marks shall be feathered into the adjacent area and touched up with the required topcoat so that the tested area conforms to the requirements total DFT specified in MIL-DTL-53072.

\*NOTE: The complete paint finish is defined as the pretreatment, primer, and topcoat applied to the substrate. Curing of the complete paint finish is dependent upon temperature, humidity, and paint film thickness. The time necessary to achieve sufficient adhesion to pass the scribe tape test must be determined by each facility. For purposes of this test, curing at ambient temperature will take 24 days. To accelerate the curing for purposes of product acceptance, the following procedure may be followed: Cure at 190 to 210 degrees Fahrenheit for three hours (this is time at temperature and is therefore material thickness dependent), followed by 7 days at 65 degrees F minimum.

- (d) Test Methods:
  - (1) The gage shall be capable of being calibrated. If no other calibration specification or requirement is identified elsewhere in this contract, then the gage shall be calibrated in accordance with ISO 10012.
  - (2) Scribe Tape Test. Shall be IAW ASTM D 3359 Method B, six (6) cut pattern.

- (e) Acceptance Criteria:
  - (1) Film Thickness. All applicable surfaces shall have complete paint coverage. A minimum of 95% of the surfaces shall meet the minimum and maximum, cumulative dry film thickness requirements. Failure of this test shall result in rejection of the production lot that it represents.
  - (2) Scribe Tape Test (Adhesion). The removal of two or more complete squares of top coat, or top coat-primer-pretreatment combination constitutes failure and the production lot is rejected. Removal of overspray does not constitute test failure.
- (f) CHEMICAL AGENT RESISTANT COATING (CARC) ON WOOD COMPONENTS.
  - (1) Wood shall be treated and painted IAW MIL-DTL-53072 section 3.3.4. After treatment, the wood shall provide a paintable

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>		<b>Page 5 of 5</b>
	<b>PIIN/SIIN</b> W56HZV-07-C-B018	<b>MOD/AMD</b> P00001	

**Name of Offeror or Contractor:** VENTARI CORPORATION

surface as described by the paint-ability requirements of Spec TT-W-572, except that the wood species, treatment, and paint shall be the same as furnished for this contract.

(2) After demonstrating that the paint adhesion requirements are met, and Government inspection/acceptance of this item has occurred, any subsequent flaking and peeling of paint from the wood shall not be considered a defect unless the Government establishes that the flaking and/or peeling of the paint was caused by defective workmanship in the application of the paint or the preparation of the painted surface.

[End of Clause]